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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/813,837	03/31/2004	Akhil K. Garlapati	026-0044	6047	
22120 7590 05/07/2007 ZAGORIN O'BRIEN GRAHAM LLP 7600B NORTH CAPITAL OF TEXAS HIGHWAY			EXAM	EXAMINER	
			PATEL, RA.	PATEL, RAJNIKANT B	
SUITE 350 AUSTIN, TX 7	78731		ART UNIT	PAPER NUMBER	
·			2838		
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			MAIL DATE	DELIVERY MODE	
			05/07/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/813,837	GARLAPATI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Rajnikant B. Patel	2838			
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tild d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 05 i	<u> March 2007</u> .				
2a) This action is FINAL . 2b) ⊠ This	a) ☐ This action is FINAL . 2b) ☑ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) <u>1,3,7-26,28-37 and 55-60</u> is/are penduda da) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,3,7-26,28-37 and 55-60</u> is/are rejection of the company of	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	ccepted or b) objected to by the e drawing(s) be held in abeyance. Section is required if the drawing(s) is of	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date			

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DETAILED ACTION

Response to Arguments

1. The finality of previous Office Action (dated 29 September 2006) on merits is hereby withdrawn. Any inconvenience to the applicant is regretted. A new Non-final Office Action is presented here below.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) The invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical

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Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 55-58 are rejected under 35 U.S.C. 102(b) as being anticipated by Nelson (U.S. Patent # 4,603,291).

Nelson discloses claimed subject matters an apparatus (figure 1-5), including a means for developing a current proportional to absolute temperature, means for amplifying, a resistor coupled to base of the bipolar transistor and to have different current densities, a parabolic function of temperature, a means for adjusting and two base-emitter voltage of bipolar transistor (column 1, line 30-65, column 3, line 20-65, column 4, line 35-69, column 6, line 5-30 and column7, line 20-40).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1,3,10-12,16-22 and 59-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mietus (U.S. Patent # 5,666,046) in combination with Nelson (U.S. Patent # 4,603,291).

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Mietus discloses claimed subject matters a voltage reference generator (figure 2),

including a first bipolar transistor (figure 2, item 34), an amplifier (figure 2, item 32), a

resistor coupled to the base of the first bipolar transistor (figure 2, item 46 and 43), the

current is proportional to a voltage difference between two base-emitter voltages and

bipolar transistors configured to have different density ((column 5, line 1-65), a feedback

path, ca current mirror (column 8, line 35-50). However Mietus does not disclose the

utilization of the technique for the current being proportional to an absolute temperature,

a parabolic function of temperature. Nelson teaches the utilization of the similar

technique for the current being proportional to an absolute temperature, a parabolic

function of temperature (column 3, line 20-30 and column 4, line 35-69). It would have

been obvious one having an ordinary skill in the art at the time the invention made to

modify Mietus's voltage reference circuit by utilizing the technique taught by Nelson for

the purpose of supplying the first current which has the requisite temperature

proportionality.

6. Claims 7-9,13-15 and 23-25 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Mietus (U.S. Patent # 5,666,046) in Combination with Nelson (U.S.

Patent # 4,603,291).

Mietus disclose the claimed subject matters as explained above, except the

utilization of the technique for a parabolic function, a low-beta transistor, beta-is less

than ten, beta is less than five, a power supply is less than 1.7V, the power supply

rejection ratio is at least 60db and voltage reference generator is less than the band-gap

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voltage of silicon. It would have been obvious one having an ordinary skill in the art at the time the invention was made to utilize transistor with available beta and power supply as well as absolute temperature function, since it has been held to be within the general skill of a worker in the art to select a known material or range on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshine 125 USPQ 416.

- 7. For method claims 26-30, note that under MPEP 21 12.02, the principles of inherency, if a prior art device, in its normal and usual operation, would necessarily perform the method claimed, then the method claimed will be considered to be anticipated by the prior art device. When the prior art device is the same as a device described in the specification for carrying out the claimed method, it can be assumed the device "1 inherently performs the claimed process. In re King, 801 F.2d 1324, 231 USPQ 136 (Fed Cir. 1986). Therefore the previous rejections based on the apparatus will not be repeated.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rajnikant B. Patel whose telephone number is 571-272-2082. The examiner can normally be reached on 6.30-5.00; m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on 571-272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rajnikant B Patel Primary Examiner Art Unit 2838
